Question 1 – Sample output

```cpp
#include <iostream>
using namespace std;

int main()
{
    int number = 4;
    number = number + number;
    cout << number << " is double the original number."
         << endl;
    number = number + number;
    cout << number << " is four times the original number."
         << endl;
    return 0;
}
```

Answer:

8 is double the original number.

16 is four times the original number.

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Question 2 – Is this legal in C++, if not what’s wrong with it?

<table>
<thead>
<tr>
<th>Declaration:</th>
<th>Answer:</th>
</tr>
</thead>
<tbody>
<tr>
<td>string name = &quot;Tyler&quot;;</td>
<td>Ok</td>
</tr>
<tr>
<td>string name = ‘Tyler’;</td>
<td>Can not have single quoted strings</td>
</tr>
<tr>
<td>char c = ‘c’;</td>
<td>Ok</td>
</tr>
<tr>
<td>char c = &quot;c&quot;;</td>
<td>Can not have string assign to character type</td>
</tr>
<tr>
<td>double d = &quot;123.234&quot;;</td>
<td>String can not be stored in double</td>
</tr>
<tr>
<td>double d = 4;</td>
<td>Ok</td>
</tr>
<tr>
<td>int i = 34.54;</td>
<td>Double can’t be stored in int</td>
</tr>
<tr>
<td>int d = (int) 34.54;</td>
<td>Ok</td>
</tr>
<tr>
<td>int j = -5;</td>
<td>Ok</td>
</tr>
</tbody>
</table>
Question 3 – Coding! Complete the following program.

Description: This program converts measurements giving in feet to inches. (eg.

```c++
#include <iostream>
using namespace std;
int main()
{
    double feet;
    double inches;
    // ask user to enter measure in feet
    _____________________________________;
    // read input into feet
    _____________________________________;
    // assign inches as feet times 12
    _____________________________________;
    // output result to user
    _____________________________________;
    return 0;
}

Answer:

In line 1:       cout << “Enter the number of feet to convert into inches: “;
In line 2:       cin >> feet;
In line 3:       inches = feet * 12;
In line 4:       cout << feet << “ feet is “ << inches << “ inches.” << endl;
```